

# PROOF OF PRODUCT (POP)

\*\*Date:\*\* 2025-08-28  
\*\*POP Reference No.:\*\* [pop\_reference]

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Witness / Notary Number	9805

## Vessel Identification and Technical Details

Vessel Identification		Registry Information	
IMO Number	9943279	Flag State	Morocco
Vessel Type	MV Sea Horizon	Call Sign	2JNOEB
Year Built	2012	Vessel Owner	MV Aegean Princess
Length Overall (LOA)	110 m	Vessel Operator / Manager	MV Hapag-Lloyd Express
Beam (Width)	52 m	ISM Manager	Kawasaki Kisen Kaisha
Draft	19.9 m	Registry Port	Port of Rotterdam
Technical Specifications		Capacity Details	
Gross Tonnage (GT)	90378 GT	Deadweight (DWT)	166374 DWT
Net Tonnage (NT)	11527 NT	Cargo Capacity (m³ / barrels)	76381 m³
Classification Society	ClassNK	Number of Cargo Tanks	18 tanks
Main Engine Type	Doosan	Pumping Capacity (m³/hr)	3642 m³/h
Speed (knots)	17.0 knots		

### 1. Seller Information

Company Name	Hapag-Lloyd AG
Registration Number	[seller_registration]
Address	[seller_address]
Tel/Fax	[seller_tel]
Email	sales@exmar.be
Authorized Representative	[seller_representative]

2. Buyer Information

Company Name	Castor Maritime Inc
Registration Number	REG-741223
Address	123 Harbor Street, Maritime District
Tel/Fax	[buyer_tel]
Email	bunkers@safebulkers.com
Authorized Representative	[buyer_representative]

3. Product Details

Commodity	Very Low Sulfur Fuel Oil (VLSFO)
Specification Standard	EN 14214
Origin	Port of Tanjung Pelepas
Port of Loading	Port of Shanghai
Port of Discharge	Port of Dubai
Quantity	[contract_quantity]
Delivery Terms	MV Yang Ming Pioneer

4. Product Technical Specifications (Laboratory Analysis)

Parameter	Unit	Result	Test Method
API Gravity @ 60°F	°API	[api_gravity]	ASTM D287
Specific Gravity @ 15°C	g/cm <sup>3</sup>	[specific_gravity]	ASTM D1298
Density @ 15°C	kg/m <sup>3</sup>	841.8 kg/m <sup>3</sup> @ 15°C	ASTM D4052
Sulfur Content (Total)	% wt	0.025%	ASTM D4294
Flash Point (PMCC)	°C	73°C	ASTM D93
Pour Point	°C	-48°C	ASTM D97
Cloud Point	°C	[cloud_point]	ASTM D2500
Viscosity @ 40°C	cSt	[viscosity_40]	ASTM D445
Viscosity @ 100°C	cSt	[viscosity_100]	ASTM D445
Kinematic Viscosity Index	-	[viscosity_index]	ASTM D2270
Cetane Number	-	55.8	ASTM D613
Octane Number (RON)	-	5747	ASTM D2699
Water Content	ppm	0.024%	ASTM D6304
Sediment & Particulates	% wt	[sediment]	ASTM D473
Ash Content	% wt	0.018%	ASTM D482
Carbon Residue (Conradson)	% wt	[carbon_residue]	ASTM D189
Nickel (Ni) Content	ppm	[nickel]	ICP-OES
Vanadium (V) Content	ppm	[vanadium]	ICP-OES

<b>Sodium (Na) Content</b>	ppm	[sodium]	ASTM D8110
<b>Nitrogen Content</b>	ppm	[nitrogen]	ASTM D5762
<b>Aromatics Content</b>	% vol	[aromatics]	ASTM D1319
<b>Olefins Content</b>	% vol	[olefins]	ASTM D1319
<b>Oxygenates (MTBE/ETBE)</b>	% vol	[oxygenates]	GC-MS
<b>Distillation (IBP)</b>	°C	[dist_ibp]	ASTM D86
<b>Distillation (10% Recovery)</b>	°C	[dist_10]	ASTM D86
<b>Distillation (50% Recovery)</b>	°C	[dist_50]	ASTM D86
<b>Distillation (90% Recovery)</b>	°C	[dist_90]	ASTM D86
<b>Distillation (Final Boiling Pt)</b>	°C	[dist_fbp]	ASTM D86
<b>Residue After Distillation</b>	% vol	[dist_residue]	ASTM D86
<b>Lubricity (HFRR @ 60°C)</b>	µm	[lubricity]	ISO 12156
<b>Cold Filter Plugging Point</b>	°C	[cfpp]	EN 116
<b>Smoke Point (Jet Fuel)</b>	mm	[smoke_point]	ASTM D1322
<b>Net Calorific Value</b>	MJ/kg	[calorific_value]	ASTM D4809

## 5. Proof of Product Documents Provided

1. Copy of License to Export
2. Copy of Title Ownership Certificate
3. Copy of Refinery Commitment to Supply
4. Copy of Statement of Product Availability
5. Copy of Tank Storage Receipt (TSR)
6. Copy of Recent SGS Report
7. Copy of Charter Party Agreement (CPA)
8. Copy of Bill of Lading (B/L)

## 6. Certification & Declaration

We, the undersigned, hereby confirm under penalty of perjury that the above-stated product is available and that the documents listed are genuine, verifiable, and issued in good faith.

**\*\*For and on behalf of the Seller\*\***

Signature:

Name: [seller\_signatory]

Title: [seller\_title]

Date: 2025-08-28

<b>Witness / Notary Number</b>	9805
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